

### STIC Database Tracking Number: 140119

TO: Roy Teller

Location: REM-3D18/3C18

Art Unit: 1654

Thursday, December 16, 2004

Case Serial Number: 09/720278

From: Edward Hart

Location: Biotech-Chem Library

**REM-1A55** 

Phone: 571-272-2512

edward.hart@uspto.gov

#### Search Notes

Examiner Teller,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

**Edward Hart** 



## STIC-Biotech/ChemLib

From:

140 119

Sent: To: Subject:	Monday, December 13, 2004 8:13 AM STIC-Biotech/ChemLib Generic form response
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submitto=Biotech01@u	spto.gov
Name=Roy Teller	
Empno=79445	
Phone=571-272-0971	
Artunit=1654	
Office=Rem-3D18	
Serialnum=09/720,278	
PatClass=514/2	
Earliest=6/26/1998	
Format1=paper	
Searchtopic= Please :	search SEQ ID NO's: 1-28. Thank you.
Comments=	
send=SEND	

Unknown@Unknown.com

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Type of Search	
NA Sequence: #	CV
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Structure: #	
Bibliographic:	
Litigation:	
Patent Family:	
Other:	

Vendors and cost where applicable STN:
DIALOG:
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LEXIS/NEXIS:
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COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
=> s lactoferrin
        14232 LACTOFERRIN
L1
=> s azole
         10592 AZOLE
=> s bovine lactoferrin
          1304 BOVINE LACTOFERRIN
=> s human lactoferrin
          1792 HUMAN LACTOFERRIN
=> s fluconazol
           185 FLUCONAZOL
=> s 15 and 11
            0 L5 AND L1
=> s 11 and 12
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=> s 12 and 13
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=> s 12 and 14
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     ANSWER 1 OF 20
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AN
     2004595057 IN-PROCESS
DΝ
     PubMed ID: 15568403
TI
     Activated lactoferrin and fluconazole synergism against Candida
     albicans and Candida glabrata vaginal isolates.
     Naidu A Satyanarayan; Fowler R Stuart; Martinez Carlos; Chen Jules;
AU
     Tulpinski Joseph
CS
     N-terminus Research Laboratory, Pomona, CA 91768, USA...
     asnaidu@n-terminus.com
     Journal of reproductive medicine, (2004 Oct) 49 (10) 800-7.
SO
     Journal code: 0173343. ISSN: 0024-7758.
CY
     United States
\mathtt{DT}
     Journal; Article; (JOURNAL ARTICLE)
LΑ
     English
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     ANSWER 2 OF 20
                        MEDLINE on STN
AN
     2003021542
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DN
     PubMed ID: 12499200
     Synergistic activity of the N-terminal peptide of human
ΤI
     lactoferrin and fluconazole against Candida species.
     Lupetti Antonella; Paulusma-Annema Akke; Welling Mick M;
ΑU
     Dogterom-Ballering Heleen; Brouwer Carlo P J M; Senesi Sonia; Van Dissel
     Jaap T; Nibbering Peter H
     Department of Infectious Diseases, Leiden University Medical Center,
CS
     Leiden, The Netherlands.
SO
     Antimicrobial agents and chemotherapy, (2003 Jan) 47 (1) 262-7.
     Journal code: 0315061. ISSN: 0066-4804.
CY
     United States
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     ANSWER 3 OF 20
                         MEDLINE on STN
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     2002445755
                   MEDLINE
DN
      PubMed ID: 12206401
 TI
      Impact of lysozyme and lactoferrin on oral Candida isolates
      exposed to polyene antimycotics and fluconazole.
 ATT
     Anil S; Samaranayake L P
     Oral Bio-Sciences, Faculty of Dentistry, University of Hong Kong.
 CS
 SO
     Oral diseases, (2002 Jul) 8 (4) 199-206.
     Journal code: 9508565. ISSN: 1354-523X.
CY
     Denmark
DT
     Journal; Article; (JOURNAL ARTICLE)
LΑ
     English
FS
     Dental Journals
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     200211
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     Entered STN: 20020904
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     Entered Medline: 20021120
L7
     ANSWER 4 OF 20
                        MEDLINE on STN
ΑN
     2000324230
                   MEDLINE
DN
     PubMed ID: 10865909
     Antimicrobial peptides as potential new antifungals.
TI
     Muller F M; Lyman C A; Walsh T J
ΑU
     Institut fur Molekulare Infektionsbiologie, Universitat Wurzburg,
CS
     Germany.. fmmueller@mail.uni-wuerzburg.de
SO
     Mycoses, (1999) 42 Suppl 2 77-82. Ref: 55
     Journal code: 8805008. ISSN: 0933-7407.
CY
     GERMANY: Germany, Federal Republic of
DT
     Journal; Article; (JOURNAL ARTICLE)
     General Review; (REVIEW)
     (REVIEW, TUTORIAL)
LA
     English
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     Entered Medline: 20000717
L7
     ANSWER 5 OF 20
                        MEDLINE on STN
AN
     1998454648
                    MEDLINE
DN
     PubMed ID: 9781363
TI
     Enhanced anti-Candida activity of neutrophils and azole
     antifungal agents in the presence of lactoferrin-related
     Wakabayashi H; Okutomi T; Abe S; Hayasawa H; Tomita M; Yamaguchi H
ΑU
     Nutritional Science Laboratory, Morinaga Milk Industry Co., Ltd., Zama,
CS
     Kanagawa, Japan.
     Advances in experimental medicine and biology, (1998) 443 229-37.
SO
     Journal code: 0121103. ISSN: 0065-2598.
CY
     United States
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
FS
     Priority Journals
EM
     199812
ED
    Entered STN: 19990115
    Last Updated on STN: 19990115
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Entered Medline: 19981209

- L7 ANSWER 6 OF 20 MEDLINE on STN
- AN 1998325418 MEDLINE
- DN PubMed ID: 9660988
- TI Inhibition of hyphal growth of **azole**-resistant strains of Candida albicans by triazole antifungal agents in the presence of **lactoferrin**-related compounds.
- AU Wakabayashi H; Abe S; Teraguchi S; Hayasawa H; Yamaguchi H
- CS Nutritional Science Laboratory, Morinaga Milk Industry Co., Ltd., Kanagawa, Japan.
- SO Antimicrobial agents and chemotherapy, (1998 Jul) 42 (7) 1587-91. Journal code: 0315061. ISSN: 0066-4804.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199810
- ED Entered STN: 19981020 Last Updated on STN: 19981020 Entered Medline: 19981008
- L7 ANSWER 7 OF 20 MEDLINE on STN
- AN 97138965 MEDLINE
- DN PubMed ID: 8985937
- TI Cooperative anti-Candida effects of lactoferrin or its peptides in combination with azole antifungal agents.
- AU Wakabayashi H; Abe S; Okutomi T; Tansho S; Kawase K; Yamaguchi H
- CS Nutritional Science Laboratory, Morinaga Milk Industry Co., Ltd., Kanagawa, Japan.
- SO Microbiology and immunology, (1996) 40 (11) 821-5. Journal code: 7703966. ISSN: 0385-5600.
- CY Japan
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199703
- ED Entered STN: 19970321 Last Updated on STN: 19970321 Entered Medline: 19970307
- L7 ANSWER 8 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- AN 2003:568999 BIOSIS
- DN PREV200300567955
- ${
  m TI}$  hLF(1-11) peptide and fluconazole act synergistically against systemic infections with fluconazole-resistant Candida albicans.
- AU Lupetti, A. [Reprint Author]; Brouwer, C. P. J.; Welling, M. M.; Bogaards, S. [Reprint Author]; Dogterom-Ballering, H. [Reprint Author]; van Dissel, J. T. [Reprint Author]; Nibbering, P. H. [Reprint Author]
- CS Dept. of Infect. Dis., Leiden University Medical Center, Leiden, Netherlands
- Abstracts of the Interscience Conference on Antimicrobial Agents and Chemotherapy, (2003) Vol. 43, pp. 434. print.

  Meeting Info.: 43rd Annual Interscience Conference on Antimicrobial Agents and Chemotherapy. Chicago, IL, USA. September 14-17, 2003. American Society for Microbiology.
- DT Conference; (Meeting)
  - Conference; Abstract; (Meeting Abstract)
- LA English
- ED Entered STN: 3 Dec 2003 Last Updated on STN: 3 Dec 2003
- L7 ANSWER 9 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on

STN

- AN 2003:328160 BIOSIS
- DN PREV200300328160
- TI Synergistic antifungal effect of fluconazole with lactoferrin was seen only in a ergosterol mutant.
- AU Kobayashi, T. [Reprint Author]; Miyazaki, Y. [Reprint Author]; Kakeya, H. [Reprint Author]; Miyazaki, T. [Reprint Author]; Yanagihara, K. [Reprint Author]; Hirakata, Y. [Reprint Author]; Tomono, K. [Reprint Author]; Tashiro, T.; Kohno, S. [Reprint Author]
- CS 2nd Department of Internal Medicine, Nagasaki University School of Medicine, Nagasaki, Japan
- SO Abstracts of the Interscience Conference on Antimicrobial Agents and Chemotherapy, (2002) Vol. 42, pp. 381. print.

  Meeting Info.: 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy. San Diego, CA, USA. September 27-30, 2002. American Society for Microbiology.
- DT Conference; (Meeting)
  Conference; Abstract; (Meeting Abstract)
- LA English
- ED Entered STN: 16 Jul 2003 Last Updated on STN: 16 Jul 2003
- L7 ANSWER 10 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- AN 2003:51097 BIOSIS
- DN PREV200300051097
- TI Synergistic activity of the N-terminal peptide of human lactoferrin and fluconazole against Candida species.
- AU Lupetti, Antonella; Paulusma-Annema, Akke; Welling, Mick M.; Dogterom-Ballering, Heleen; Brouwer, Carlo P. J. M.; Senesi, Sonia; van Dissel, Jaap T.; Nibbering, Peter H. [Reprint Author]
- CS Department of Infectious Diseases, Leiden University Medical Center, C5-P, 2300 RC, P.O. Box 9600, Leiden, Netherlands p.h.nibbering@lumc.nl
- Antimicrobial Agents and Chemotherapy, (January 2003) Vol. 47, No. 1, pp. 262-267. print.
  ISSN: 0066-4804 (ISSN print).
- DT Article
- LA English
- ED Entered STN: 22 Jan 2003 Last Updated on STN: 22 Jan 2003
- L7 ANSWER 11 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- AN 2000:434964 BIOSIS
- DN PREV200000434964
- TI Antimicrobial peptides as potential new antifungals.
- AU Mueller, F.-M. C. [Reprint author]; Lyman, C. A.; Walsh, T. J.
- CS Institut fuer Molekulare Infektionsbiologie der Universitaet, Roentgenring 11, D-97070, Wuerzburg, Germany
- SO Mycoses, (1999) Vol. 42, No. Supplement 2, pp. 77-82. print. CODEN: MYCSEU. ISSN: 0933-7407.
- DT Article
- LA English
- ED Entered STN: 11 Oct 2000 Last Updated on STN: 10 Jan 2002
- L7 ANSWER 12 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- AN 1998:358497 BIOSIS
- DN PREV199800358497
- TI Inhibition of hyphal growth of **azole**-resistant strains of Candida albicans by triazole antifungal agents in the presence of **lactoferrin**-related compounds.

- AU Wakabayashi, Hiroyuki [Reprint author]; Abe, Shigeru; Teraguchi, Susumu; Hayasawa, Hirotoshi; Yamaguchi, Hideyo
- CS Nutritional Sci. Lab., Morinaga Milk Ind. Co. Ltd., 5-1-83 Higashihara, Zama, Kanagawa 228-8583, Japan
- SO Antimicrobial Agents and Chemotherapy, (July, 1998) Vol. 42, No. 7, pp. 1587-1591. print.

  CODEN: AMACCQ. ISSN: 0066-4804.
- DT Article
- LA English
- ED Entered STN: 27 Aug 1998 Last Updated on STN: 27 Aug 1998
- L7 ANSWER 13 OF 20 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- AN 1997:15386 BIOSIS
- DN PREV199799314589
- TI Cooperative anti-Candida effects of **lactoferrin** or its peptides in combination with **azole** antifungal agents.
- AU Wakabayashi, Hiroyuki [Reprint author]; Abe, Shigeru; Okutomi, Takafumi; Tansho, Shigeru; Kawase, Kouzou; Yamaguchi, Hideyo
- CS Nutr. Sci. Lab., Morinaga Milk Ind. Co. Ltd., 5-1-83 Higashihara, Zama, Kanagawa 228, Japan
- SO Microbiology and Immunology, (1996) Vol. 40, No. 11, pp. 821-825. CODEN: MIIMDV. ISSN: 0385-5600.
- DT Article
- LA English
- ED Entered STN: 15 Jan 1997 Last Updated on STN: 11 Feb 1997
- L7 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 2003:26947 CAPLUS
- DN 138:234670
- TI Synergistic activity of the N-terminal peptide of human lactoferrin and fluconazole against Candida species
- AU Lupetti, Antonella; Paulusma-Annema, Akke; Welling, Mick M.; Dogterom-Ballering, Heleen; Brouwer, Carlo P. J. M.; Senesi, Sonia; Van Dissel, Jaap T.; Nibbering, Peter H.
- CS Department of Infectious Diseases, Leiden University Medical Center, Leiden, 2300 RC, Neth.
- SO Antimicrobial Agents and Chemotherapy (2003), 47(1), 262-267 CODEN: AMACCQ; ISSN: 0066-4804
- PB American Society for Microbiology
- DT Journal
- LA English
- RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 2000:354401 CAPLUS
- DN 133:219859
- TI Antimicrobial peptides as potential new antifungals
- AU Muller, F.-M. C.; Lyman, C. A.; Walsh, T. J.
- CS Institut fur Molekulare Infektionsbiologie, Universitat Wurzburg, Wurzburg, D-97070, Germany
- SO Mycoses (1999), 42(Suppl. 2), 77-82 CODEN: MYCSEU; ISSN: 0933-7407
- PB Blackwell Wissenschafts-Verlag GmbH
- DT Journal; General Review
- LA English
- RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1998:797266 CAPLUS

- DN 130:179817
- TI Enhanced anti-Candida activity of neutrophils and azole antifungal agents in the presence of lactoferrin-related compounds
- AU Wakabayashi, Hiroyuki; Okutomi, Takafumi; Abe, Shigeru; Hayasawa, Hirotoshi; Tomita, Mamoru; Yamaguchi, Hideyo
- CS Nutritional Science Laboratory, Morinaga Milk Industry Co., Ltd., Kanagawa, 228, Japan
- SO Advances in Experimental Medicine and Biology (1998), 443 (Advances in Lactoferrin Research), 229-237
  CODEN: AEMBAP; ISSN: 0065-2598
- PB Plenum Publishing Corp.
- DT Journal
- LA English
- RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1998:436280 CAPLUS
- DN 129:159005
- TI Inhibition of hyphal growth of **azole**-resistant strains of Candida albicans by triazole antifungal agents in the presence of **lactoferrin**-related compounds
- AU Wakabayashi, Hiroyuki; Abe, Shigeru; Teraguchi, Susumu; Hayasawa, Hirotoshi; Yamaguchi, Hideyo
- CS Nutritional Science Laboratory, Morinaga Milk Industry Co., Ltd., Kanagawa, 228-8583, Japan
- SO Antimicrobial Agents and Chemotherapy (1998), 42(7), 1587-1591 CODEN: AMACCQ; ISSN: 0066-4804
- PB American Society for Microbiology
- DT Journal
- LA English
- RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1997:449119 CAPLUS
- DN 127:113393
- TI Antifungal agents containing azole fungicides and lactoferrin hydrolyzates
- IN Yamaguchi, Hideyo; Abe, Shigeru; Hayasawa, Hiroki; Kawase, Kozo; Yamauchi, Koji; Wakabayashi, Hiroyuki
- PA Morinaga Milk Industry Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 10 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 09165342	A2	19970624	JP 1995-347405	19951214
PRAI	JP 1995-347405		19951214		

- L7 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1997:186326 CAPLUS
- DN 126:176926
- TI Antifungal agents containing azole fungicides and lactoferrins
- IN Yamaguchi, Hideyo; Abe, Shigeru; Okutomi, Takafumi
- PA Morinaga Milk Industry Co Ltd, Japan
- SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE -----\_\_\_\_ ----------PΙ JP 09002970 A2 19970107 JP 1995-178255 19950621 PRAI JP 1995-178255 19950621 L7 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN AN1997:20438 CAPLUS DN126:84133 TTCooperative anti-Candida effects of lactoferrin or its peptides in combination with azole antifungal agents ΑU Wakabayashi, Hiroyuki; Abe, Shigeru; Okutomi, Takafumi; Tansho, Shigeru; Kawase, Kouzou; Yamaguchi, Hideyo

CS Nutritional Science Laboratory, Morinaga Milk Industry Co., Ltd., Kanagawa, 228, Japan

SO Microbiology and Immunology (1996), 40(11), 821-825 CODEN: MIIMDV; ISSN: 0385-5600

PB Center for Academic Publications Japan

DT Journal

LA English

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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- L8 ANSWER 1 OF 4 MEDLINE on STN
- AN 1998325418 MEDLINE
- DN PubMed ID: 9660988
- TI Inhibition of hyphal growth of **azole**-resistant strains of Candida albicans by triazole antifungal agents in the presence of lactoferrin-related compounds.
- AU Wakabayashi H; Abe S; Teraguchi S; Hayasawa H; Yamaquchi H
- CS Nutritional Science Laboratory, Morinaga Milk Industry Co., Ltd., Kanagawa, Japan.
- SO Antimicrobial agents and chemotherapy, (1998 Jul) 42 (7) 1587-91. Journal code: 0315061. ISSN: 0066-4804.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199810
- ED Entered STN: 19981020

Last Updated on STN: 19981020 Entered Medline: 19981008

- L8 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- AN 1998:358497 BIOSIS
- DN PREV199800358497
- TI Inhibition of hyphal growth of **azole**-resistant strains of Candida albicans by triazole antifungal agents in the presence of lactoferrin-related compounds.
- AU Wakabayashi, Hiroyuki [Reprint author]; Abe, Shigeru; Teraguchi, Susumu; Hayasawa, Hirotoshi; Yamaguchi, Hideyo
- CS Nutritional Sci. Lab., Morinaga Milk Ind. Co. Ltd., 5-1-83 Higashihara, Zama, Kanagawa 228-8583, Japan
- SO Antimicrobial Agents and Chemotherapy, (July, 1998) Vol. 42, No. 7, pp. 1587-1591. print.
  CODEN: AMACCQ. ISSN: 0066-4804.
- DT Article
- LA English
- ED Entered STN: 27 Aug 1998 Last Updated on STN: 27 Aug 1998

- L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1998:436280 CAPLUS
- DN 129:159005
- TI Inhibition of hyphal growth of **azole**-resistant strains of Candida albicans by triazole antifungal agents in the presence of lactoferrin-related compounds
- AU Wakabayashi, Hiroyuki; Abe, Shigeru; Teraguchi, Susumu; Hayasawa, Hirotoshi; Yamaguchi, Hideyo
- CS Nutritional Science Laboratory, Morinaga Milk Industry Co., Ltd., Kanagawa, 228-8583, Japan
- SO Antimicrobial Agents and Chemotherapy (1998), 42(7), 1587-1591 CODEN: AMACCQ; ISSN: 0066-4804
- PB American Society for Microbiology
- DT Journal
- LA English
- RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1997:186326 CAPLUS
- DN 126:176926
- TI Antifungal agents containing azole fungicides and lactoferrins
- IN Yamaguchi, Hideyo; Abe, Shigeru; Okutomi, Takafumi
- PA Morinaga Milk Industry Co Ltd, Japan
- SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 09002970	A2	19970107	JP 1995-178255	19950621
PRAI	JP 1995-178255		19950621		

09/7/20 278

# **WEST Search History**

Hide Items Restore Clear Cancel

DATE: Thursday, December 16, 2004

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	L17	human lactoferrin	377			
	L15	fluconazol	29			
П	L14	bovine lactoferrin	185			
П	L13	L12 and 111	28			
	L12	azole	15927			
	L11	lactoferrin	2798			
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	L8	530/395	2849			
	L7	530/350	19116			
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	L5	514/18	3217			
	L4	514/17	1916			
	L3	514/15	2281			
	L2	514/14	1758			
	L1	514/12	11394			

END OF SEARCH HISTORY